

IN THE CLAIMS:

1-13. Canceled.

14. (Original) An ultrasonic testing system for detecting features of an object, the system comprising:

an energy generator, the energy generator producing first energy in the object, the first energy comprising ultrasonic energies;

an illumination generator that bathes the object with a second energy;

an energy reception mechanism that receives a third energy emanating from the object;

the third energy emanating from the object in response to the second energy;

the illumination generator and the energy reception mechanism coupled to each other in a predetermined spatial relationship;

the energy reception mechanism associated with the energy generator in a predetermined spatial relationship; and

control circuitry, communicatively coupled to the energy reception mechanism, that determines the spatial relationship between the object and the energy generator based on the reception of the third energy.

15. (Currently Amended) The ultrasonic testing system of Claim 13, the second energy comprising electromagnetic energy.

16. (Original) The ultrasonic testing system of Claim 15 wherein the electromagnetic radiation is in the visible light wavelength.

17. (Original) The ultrasonic testing system of Claim 16 wherein the energy reception mechanism is a camera.

18. (Original) The ultrasonic testing system of Claim 16 wherein the energy reception mechanism is an array of photoreceptors.

19. (Original) The ultrasonic testing system of Claim 15 wherein the electromagnetic radiation is coherent electromagnetic energy.

20. (Original) The ultrasonic testing system of Claim 19, wherein the energy reception mechanism is a camera.

21. (Original) An ultrasonic testing system for detecting features on an object, the system comprising:

- a support, that supports the object;
- an energy generator, the energy generator producing first energy in the object, the first energy comprising ultrasonic energies;
- an actuator that changes the relative position of the object relative to the energy generator;
- an illumination generator that bathes the object with a second energy;
- an energy reception mechanism that receives a third energy emanating from the object;
- the third energy emanating from the object in response to the second energy;
- the illumination generator and the energy reception mechanism coupled to each other in a predetermined spatial relationship;
- the energy reception mechanism associated with the energy generator in a predetermined spatial relationship;
- a first control circuitry, communicatively coupled to the energy reception mechanism, that determines the spatial relationship between the object and the energy generator based on the reception of the third energy;
- a second control circuitry, communicatively coupled to the actuator, that changes the spatial relationship between the object and the energy generator based on the reception of the third energy.